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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,397	10/31/2003	Jason R. Brindel	9314-41 3313		
54414	7590 07/05/2006		EXAMINER		
MYERS BIO	GEL SIBLEY & SAJOVE	VU, PHU			
P.O. BOX 37		ART UNIT	PAPER NUMBER		
RALEIGH, 1	NC 27627		TALER NOMBER		
			2871		
			DATE MAILED: 07/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicat	ion No.	Applicant(s)			
		10/699,3	397	BRINDEL, JASON	R.		
		Examine	er	Art Unit			
		Phu Vu		2871			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAnsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community of the provider of the second of the provider of the provisions of the provider of the provisions of	ALING DATE OF T f 37 CFR 1.136(a). In no e nication. utory period will apply and v ill, by statute, cause the ap	HIS COMMUNICATION went, however, may a reply be tin will expire SIX (6) MONTHS from plication to become ABANDONE	N. nety filed the mailing date of this co D (35 U.S.C. § 133).			
Status							
1)	Responsive to communication(s) filed This action is FINAL . 2. Since this application is in condition for the condition of t	o)⊠ This action is		osecution as to the	merits is		
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	on of Claims						
5)	Claim(s) 1-34 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) 15-25 is/are allowed. Claim(s) 1 and 26 is/are rejected. Claim(s) 2-14 and 27-34 is/are object Claim(s) are subject to restrict on Papers The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including to The oath or declaration is objected to	e withdrawn from content to the drawing(s) he correction is required.	requirement.)□ objected to by the l be held in abeyance. See red if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF			
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) 🔲 Notic 3) 🔲 Infori	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	D-152)		

DETAILED ACTION

Response to Arguments

The indicated allowability of claims 1 and 26 are withdrawn in view of the newly discovered reference(s) to Minoura. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 are rejected under 35 U.S.C. 102(b) as being anticipated by Minoura 6433847.

Regarding claims 1, Minoura teaches a liquid crystal comprising a microelectromechanical reflective array and a plurality of plates associated with the
micro-electromechanical reflective array, the plates being movable between first
and second positions and being configured to operate in a first mode of operation
when the plurality of plates are in the first position and a second mode of
operation when the plates are in a the second position (see column 14 lines 5965 and see abstract). Minoura teaches a liquid crystal display with a micro-

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electromechanical reflective array (see column 14 lines 59-65) that uses the mirrors to adjust the reflection plane of a reflective display thereby improving the viewing angle. Therefore, first position can be considered arbitrary viewing angle X degrees and second position to be X + Y degrees where X and Y are both nonzero degree angles as viewing angle is considered one mode of operation and viewing angle X+Y is considered another mode of operation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 26 rejected under 35 U.S.C. 103(a) as being unpatentable over Minoura in view of Spear 6310767.

Regarding claim 26, Minoura teaches all the limitations of claim 26, except a housing with the LCD being integral with the housing. Spear teaches a housing wherein the LCD is integral with the housing that also acts as an electromagnetic shield (see abstract) as well as provide support. Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to apply a housing to support the LCD and also provide shielding against adverse effects from other electronic components.

Allowable Subject Matter

Art Unit: 2871

Claims 2-25 and 27-34 are allowed.

following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 2-12, 14-25 and 27-34, there is no prior art of record that teaches a liquid crystal display comprising: Minoura teaches the all the limitations of claims 2, 15, 25 and 27 and 34 (all other claims dependent) except the first position corresponding to a substantially parallel to the LC layer and second position substantially perpendicular to the LC layer.

Minoura teaches a liquid crystal comprising a micro-electromechanical reflective array and a plurality of plates associated with the micro-electromechanical reflective array, the plates being movable between first and second positions and being configured to operate in a first mode of operation when the plurality of plates are in the first position and a second mode of operation when the plates are in a the second position (see claim 1 rejection). Minoura teaches the plates movable between first and second positions however fails to disclose any exact or relative positions that would indicate being parallel or perpendicular to the LC layer.

Regarding claim 13, the prior art fails to teach a rear polarizer and a front polarizer overlying the second transparent layer.

The addition of polarizers in these respective positions would be obvious in most circumstances however, since Minoura explicitly discloses that the display is meant to work without polarizers which reduce light utilization than any

combination of a polarizer with Minoura would be a teaching away with respect to Minoura.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phu Vu whose telephone number is (571)-272-1562. The examiner can normally be reached on 8AM-5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571)-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phu Vu Examiner AU 2871

> A In Liello ANDREW SCHECHTER PRIMARY EXAMINER